Eclipsing Binary Stars: Modeling and Analysis

Second Edition

Josef Kallrath Eugene F. Milone





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Proceedings of the 14th Arabic Conference of the Arab Union for Astronomy and Space Sciences Hamid M. K. Al

Naimiy, Hussein M Elmehdi, Ihsan A. Shehadi, 2025-05-03 This book presents peer reviewed articles from the 14th Arab Conference on Astronomy and Spaces Sciences AUASS held from 13 16 November 2023 at the University of Sharjah UAE It includes recent advances in the fields of astronomy astrophysics space sciences and technologies including the universe and its components of celestial objects including stars galaxies stars planets and the solar system Additional topics covering earth from outer space the physics of the sun solar activities and their impact on the atmosphere and the environment are included A number of chapters will be dedicated to the Arab heritage highlighting their contribution in astronomy and space sciences Light Curve Modeling of Eclipsing Binary Stars This is an open access book Forthcoming Books Rose Arny, 1999 E.F. Milone, 1993 In the two decades since the development of the first eclipsing binary modeling code new analytic techniques and the availability of powerful sometimes dedicated computing facilities have made possible vastly improved determinations of fundamental and even transient stellar parameters. The scale of these developments of course raises questions about modeling tools techniques and philosophies such as Who will maintain and upgrade the codes Will the codes be open to improvement by outsiders and if so how And indeed what should be the goals of a modeling program Such questions had not been aired for a long time and for this reason alone deserved to be discussed in as general a forum as the community provides This volume contains material presented by Commission 42 Close Binary Stars during the International Astronomical Union's XXI General Assembly in Argentina July 1991 and during IAU Colloquium 151 Cordoba Argentina August 1991 The techniques discussed include simulations of stellar bright and dark spots streams partial and complete stellar disks prominences and other features characterizing active stars modeling of polarization parameters models that use radial velocities as well as line profile simulations to model velocity field variation across stellar disks the weighted effects of brightness asymmetries and models for translucent eclipsing agents such as stellar winds Interior Modelling of Massive Stars in Multiple Systems Cole Johnston, 2021-05-21 This thesis by Cole Johnston brings novel insights into the inner workings of young massive stars By bridging the observational fields of binary stars and asteroseismology this thesis uses state of the art statistical techniques to scrutinise theories of modern stellar astrophysics Developing upon the commonly used isochrone fitting methodology the author introduces the idea of isochrone cloud fitting in order to account for the full breadth of physics observed in stars The author combines this methodology with gravity mode asteroseismic analysis to asses the level of chemical mixing deep within the stellar core in order to determine the star s age and core mass Wrapped into a robust statistical framework to account for correlations this methodology is employed to analyse individual stars multiple systems and clusters alike to demonstrate that chemical mixing has dramatic impact on stellar structure and evolution

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